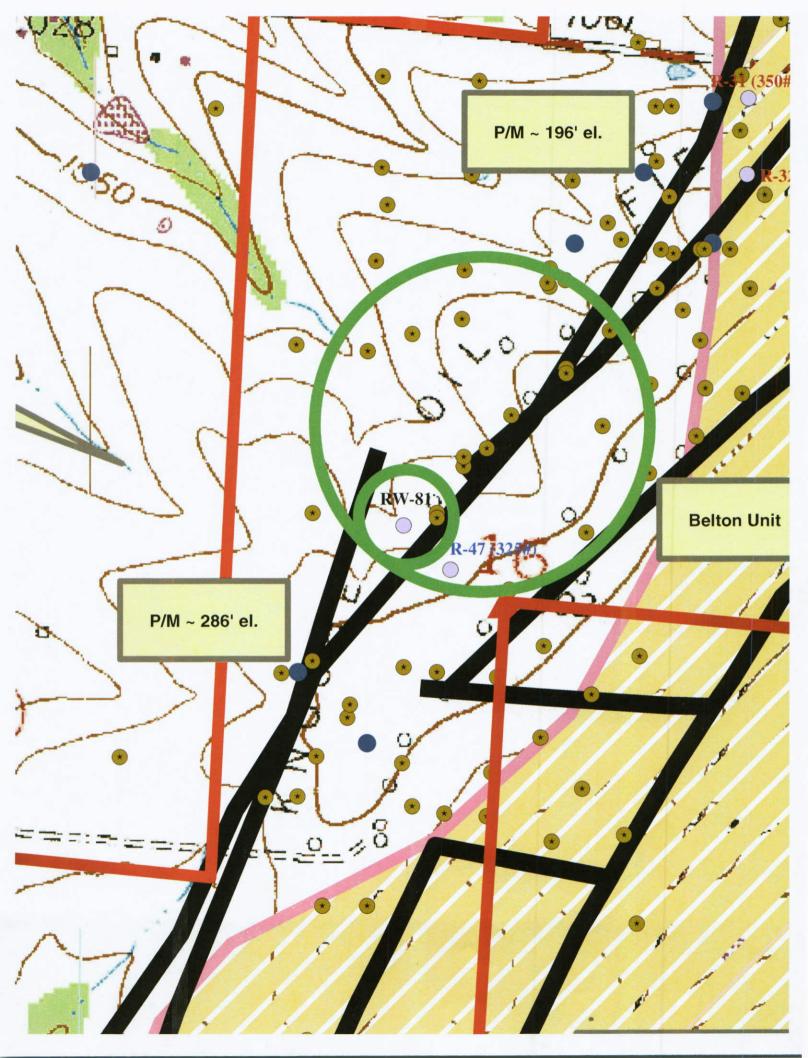


STATE OF MISSOURI MISSOURI DEPARTMENT OF NATURAL RESOURCES GEOLOGICAL SURVEY PROGRAM

INJECTION WELL PERMIT APPLICATION (TO DRILL, DEEPEN, PLUG BACK, OR CONVERT AN EXISTING WELL)

	NOTE ▶		r drilling only, not in al notification given.	ection. Approval of	or denial for injec	tion determined after	r Mechanical Int	egrity Test re	esults
		CATION TO DRILL	☐ DEEPEN	l PLUC	BACK [FOR AN OIL W		OR GAS W	/ELL
	5.44000000 - 1.4000 D-1.4000	PANY OR OPERATOR		_			DATE		
		ource Exploration	& Development, LL		CITY			7ID CODE	
	ADDRESS	th Ctract Cuita EC	0		CITY		I SOMEONE		
		th Street, Suite 50			Overland Park		No	00210	THE REAL PROPERTY.
	NAME OF LEAS	ION OF WELL AN	ID LEASE		WELL NUMBER		ELEVATION (GR	OUND	
	Belton Unit						1083'		
	WELL LOCATIO		ft from North 7		/		t section line		
10	WELL LOCATIO		_ IL. ITOM [North M			LONGITUDE /	COUNTY		
0.0	Sec. 16	ownship 46 Nort	n Range 33 🔲 E	East 🗸 West	38 48' 39.046"	W94 34' 41.857"	Cass 03	7	3
1-10	NEAREST DIS	STANCE FROM PROPO	SED LOCATION TO PR	OPERTY OR LEASE			1	SPECI	AL)
3	DISTANCE FF	ROM PROPOSED LOC				OR WELL ON THE SA	ME LEASE 9	-	
31	PROPOSED DE				ND ADDRESS		1.000		WHEL START
below	650 feet 47		Utah Oil,	LLC			08/20	12012	
200	NUMBER OF AC	RES IN LEASE NUM	BER OF WELLS ON LEA	SE INCLUDING THIS	WELL, COMPLET	ED IN OR DRILLING T	O THIS RESERV	OIR 124	
30/1	560	NUM	BER OF ABANDONED V	VELLS ON LEASE 0					
47	IF LEASE PUF	RCHASED WITH ONE	WELL NUMBER RW-81 1083' West South section line 3176 ft. from East West section line COUNTY		71				
(1)	NAME DE E	xploration						INJECTION	
2/5			WBER OF WELLS ON LEASE INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR 124 MBER OF ABANDONED WELLS ON LEASE 0 E OR MORE WELLS DRILLED, FROM WHOM PURCHASED? NO. OF WELLS PRODUCING 71 INJECTION 44 INACTIVE 8 ABANDONED 0 SINGLE WELL AMOUNT \$ BLANKET BOND ON TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING/INJECTION ZONE AND EXPECTED NEW						
174C	ADDRESS T	ooo I ngililay 1100	Tronormo, reo coce			O7/28/2012 STATE ZIP CODE KS 66210 ELEVATION (GROUND 1083' S) M Z East West section line LONGITUDE COUNTY Cass 037 R WELL ON THE SAME LEASE 9 FEET ROSECT APPROX DATE WORK WHEL START O8/20/2012 D IN OR DRILLING TO THIS RESERVOIR 124 NO. OF WELLS PRODUCING 71 INJECTION 44 INACTIVE 8 ABANDONED 0 SET BOND NT \$ 160,000 ON FILE NTY \$ 160,000 ON FILE NTY \$ 160,000 ON FILE OCASING - TO BE FILLED IN BY STATE GEOLOGIST SIZE WT/FT CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST SIZE WT/FT CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST SIZE WT/FT CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST SIZE WT/FT CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST SIZE WT/FT CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST SIZE WT/FT CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST SIZE WT/FT CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM. TO LASING - TO BE FILLED IN BY STATE GEOLOGIST APPROX DATE CEM.			
NAME DE ADDRESS		US OF BOND		L	☑ BLAN	NKET BOND			2
	REMARKS: (IF	THIS IS AN APPLICATION	TO DEEPEN OR PLUG BAC	K, BRIEFLY DESCRIBE	WORK TO BE DONE.	GIVING PRESENT PROD			
				.,					
		PROPOSED	CASING PROGRAM		APPROV	/ED CASING - TO BE	FILLED IN BY ST	ATE GEOLO	GIST
	AMOUNT			CEM					
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		the best of my kn		ly supervision and	direction and	triat trie racis state	ed therein are	true, corre	ot, and
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		BK					10/10	5/12	
	PERMIT NUMBE			DRILLER'S LOG	REQUIRED	™ E-LOG	S REQUIRED IF	RUN	
		20990		CORE ANALYSI					ED IF RUN
	APPROVED DAT	12 - 20	- 12	☐ SAMPLES REQ		-			
	APPROVED BY	12-20	Winn	SAMPLES NOT					
	ALL WED BY	and the	/ ///		ES REQUIRED AT				
	10.	The province	Luma	N			D LOCATION	ADDDO	/AL OF
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			PROPOSED WEL						
	MO 780-0212 (6		IT TWO (2) COPIES TO: GI						

ONE (1) COPY WILL BE RETURNED Leech of the Utah (Company), confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative. DRILLER'S SIGNATURE PROPOSED OPERATIONS DATA PROPOSED AVERAGE DAILY INJECTION. PRESSURE 300 PSIG, RATE .035 APPROVED AVERAGE DAILY INJECTION. VOLUME 50 (TO BE FILLED IN BY STATE GEOLOGIST) PRESSURE 500 PSIG, RATE 1035 BPD/GPM, VOLUME 50 BBL/GAL PROPOSED MAXIMUM DAILY INJECTION, PRESSURE 300 PSIG. RATE APPROVED MAXIMUM DAILY INJECTION, BBLIGAL (TO BE FILLED IN BY STATE GEOLOGIST) PRESSURF 500 PSIG RATE BPD/GPM, VOLUME 57 ESTIMATED FRACTURE PRESSURE GRADIENT OF INJECTION ZONE 0.43 BBL/GAL DESCRIBE THE SOURCE OF THE INJECTION FLUID Squirrel sandstone produced water and rural water SUBMIT AN APPROPRIATE ANALYSIS OF THE INJECTION FLUID. (SUBMIT ON SEPARATE SHEET) DESCRIBE THE COMPATIBILITY OF THE PROPOSED INJECTION FLUID WITH THAT OF THE RECEIVING FORMATIONS, INCLUDIUNG TOTAL DISSOLVED We have been using these injection fluids since the waterflood began with no issues. The formations respond to injection fluids. The injection fluids consist of recycled formation water and fresh water. GIVE AN ACCURATE DESCRIPTION OF THE INJECTION ZONE INCLUDING LITHOLOGIC DESCRIPTIONS, GEOLOGIC NAME, THICKNESS, DEPTH, POROSITY, The upper, middle, and lower Squirrel Sandstone depth ranges from 500-600 feet with an average thickness of 90 feet. The upper Squirrel is generally 30 feet thick with 21% average porosity and 172 millidarcy's average permeability. The middle Squirrel is generally 20 feet thick with 22% average porosity and 1,000 millidarcy's average permeability. The lower Squirrel is generally 40 feet thick with 20.5% average porosity and 593 millidarcy's average permeability. GIVE AN ACCURATE DESCRIPTION OF THE CONFINING ZONES INCLUDING LITHOLOGIC DESCRIPTION, GEOLOGIC NAME, THICKNESS, DEPTH, POROSITY, AND PERMEABILITY The confining layers of the Squirrel Sandstone consist of the the Fort Scott group above the sandstone and the Verdigris formation below the sandstone. The Fort Scott contains two prominent shales, the Blackwater Creek and the Excello, as well as the Blackjack Creek limestone that has a total thickness of 30-50 feet. The Verdigris formation consists of the the Ardmore limestone member and the Oakley shale with a total thickness of 20-40 feet. The zones are impermeable at less than 3% porosity. SUBMIT ALL AVAILABLE LOGGING AND TESTING DATA ON THE WELL GIVE A DETAILED DESCRIPTION OF ANY WELL NEEDING CORRECTIVE ACTION THAT PENETRATES THE INJECTION ZONE IN THE AREA OF REVIEW (1/2 MILE RADIUS AROUND WELL). INCLUDE THE REASON FOR AND PROPOSED CORRECTIVE ACTION. No corrective action needed.







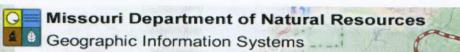
STATE OF MISSOURI MISSOURI DEPARTMENT OF NATURAL RESOURCES GEOLOGICAL SURVEY PROGRAM

INJECTION WELL LOCATION PLAT

AUG 06 2012

FORM OGC-41

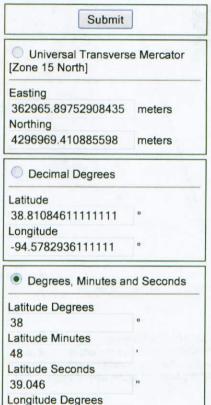
Mo Oil & Gas Council Kansas Resource Exploration & Development, LLC (K.R.E.D) LEASE NAME COUNTY Belton Unit - RW-81 Cass WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES) 3176 ft. from ☑East ☐West section line ft. from North South section line WELL LOCATION Sec. 16 North Range 33 Township 46 East ✓ West W94° 34' 41.857" / N38° 48' 39.046" / Belton Unit REMARKS 31061 Section 16 is an irregular section and larger than one square mile. Plat Map Scale - 1 Square = 682.25 feet This is to certify that I have executed a survey to accurately INSTRUCTIONS locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on the above plat. On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease lines must be marked. REGISTERED LAND SURVEY NUMBER







Select a coordinate format, enter a pair of coordinates in the boxes below it, and then press the SUBMIT button. Please be patient while your information is retrieved. Your coordinates will be converted to the other formats, the information on the right-hand side of the page will be filled in based on your coordinates, and a map will be generated. NOTE: All coordinates must use the North American Datum of 1983 (NAD83).



UTM Zone 15N [Easting, Northing] [362965.8, 4296969.4] meters Decimal Degrees [Lat, Lon] [38.810846°, -94.578294°] Deg, Min, Sec [Lat, Lon] [38° 48' 39.0", -94° 34' 41.8"] **County Name** Cass County FIPS Code **Legal Description** Section 16 T46N R33W Municipality NO VALUE **House District** 123 Senate District 31 **Congressional District** MoDNR Region Kansas City Regional Office USGS 1:24,000 Quadrangle Belton [38094-G5] 8 Digit Watershed 10300101 [Lower Missouri-Crooked] 10 Digit Watershed 1030010101 [Blue River] 12 Digit Watershed 103001010104 [Camp Branch-Blue River] Special Well Drilling Area Area 2 **Ecological Drainage Unit** Central Plains/Blackwater/Lamine Level III Ecoregion Central Irregular Plains **Query Time** 5.937 s

Rows with red text indicate that the input location is too close to a boundary to produce reliable results.

NOTE: A result of 'NO VALUE' is usually an indication that no data was found for the location. For example, not every point in Missouri will lie within a municipal boundary, so some will result in a 'NO VALUE'. If 'County Name' results in 'NO VALUE', your point probably lies outside the state.

Well ID: # 005390 Elev. 1069 P.: 229'elev. Pr-M: 345'

Well 10: # 026755 in lease

Pc: 535' TD

1083-535-345

> P x203' dev.

Metadata

41.857

- Interstate Highways
- · US Highways
- State Highways

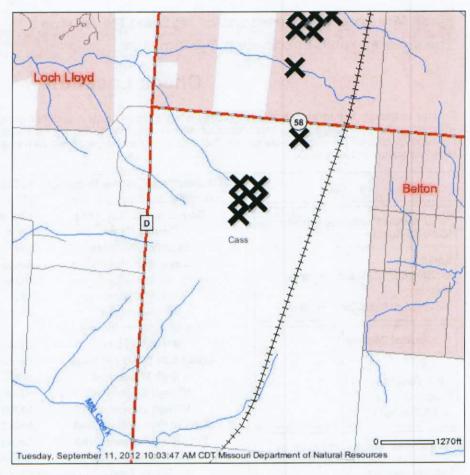
Longitude Minutes

Longitude Seconds

- Railroad
- Major and Minor Roads
- County Boundary
- Lakes
- Major Rivers
- · Rivers and Streams
- Missouri River
- Mississippi River
- Municipal

Page 2 of 2





View Scale 1:24,000

DISCLAIMER: Although this map has been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the department as to the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the department in the use of these data or related materials.



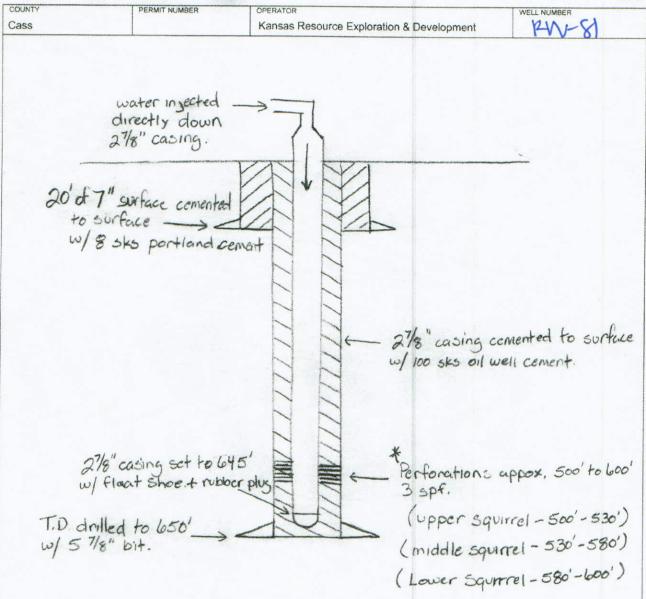
P. O. Box 176, Jefferson City, MO 65102 800-361-4827 / 573-751-3443 E-mail: contact@dnr.mo.gov



STATE OF MISSOURI MISSOURI DEPARTMENT OF NATURAL RESOURCES GEOLOGICAL SURVEY PROGRAM

INJECTION WELL SCHEMATIC

OGC-11



INSTRUCTIONS ON THE ABOVE SPACE DRAW A NEAT, ACCURATE SCHEMATIC DIAGRAM OF THE APPLICANT INJECTION WELL, INCUDING THE FOLLOWING: CONFIGURATION OF WELLHEAD, TOTAL DEPTH OR PLUG BACK TOTAL DEPTH, DEPTH OF ALL INJECTION OR DISPOSAL INTERVALS, AND THEIR FORMATION NAMES, LITHOLOGY OF ALL FORMATIONS PENETRATED, DEPTHS OF THE TOPS AND BOTTOMS OF ALL CASING AND TUBING, SIZE AND GRADE OF ALL CASING AND TUBING, AND THE TYPE AND DEPTH OF PACKER, DEPTH, LOCATION, AND TYPE OF ALL CEMENT, DEPTH OF ALL PERFORATIONS AND SQUEEZE JOBS, AND GEOLOGIC NAME AND DEPTH TO BOTTOM OF ALL UNDERGROUND SOURCES OF DRINKING WATER WHICH MAY BE AFFECTED BY THE INJECTION. USE BACK IF ADDITIONAL SPACE IS NEEDED, OR ATTACH SHEET.

The surface casing is 7" in diameter and is new, limited service grade pipe. The 7" is drifted and tested to 7,000 lbs. and weighs at least 17 lbs. per foot. The surface casing will be set to a minimum depth of 20 feet and extend 6 inches above the surface. Approximately 8 sacks of Portland cement will be circulated to surface and will secure the well and ensure the contents of the well bore are sealed off from sources of drinking water. The production casing used is 2 7/8" EUE upset, drifted and tested to 7,000 lbs. No tubing will be ran in the injection wells, the injection fluid will be injected directly down the 2 7/8" casing. The total depth of the well will be approximately 650 feet drilled with a 5 5/8" bit. A 2 7/8" flapper type float shoe will be set at the base of the 2 7/8" casing pipe (645 feet) with centralizers installed to center the casing inside the well bore for better cement bonding. The 2 7/8" casing will be cemented from 650 feet to surface using a 2 7/8" rubber plug for displacing the cement. Approximately 100 sacks of high-grade Oil Well cement will be used to cement all wells. This cement will ensure that no contents of the pipe will leave the well bore. The top of the 2 7/8" casing will extend approximately one foot above ground level. After the cement has cured and effectively bonded to the 2 7/8" casing, perforations will be made in the Squirrel Sandstone formation from approximately 500-600 feet, depending on where the oil sand is present at this particular location. Wells will be shot with 3 perforations per foot where the squirrel sandstone oil reservoir is present and capable of water injection. No water sources are present at this depth and will not be affected by these perforations or the injection. The relevant sources of drinking water are located less than 20 feet below surface. The 7" surface pipe and durable Portland cement ensures these water sources will remain free from contamination from drilling and injection activity. Other sources of potential usable water may be present, however not always potable, in the Pennsylvanian and Mississippian formations located approximately 150 feet or deeper below the base of the Squirrel Sandstone.

The lithology of all formations penetrated by the wellbore are as follows:

<u>Formation</u>	Total Depth (feet)
Soil	0-2
Clay	2-6
Lime	6 – 28
Shale	28 – 49
Lime	49 – 64
Shale	64 – 69
Red Bed	69 – 78
Shale	78 – 82

Lime	82 – 87	
Shale	87 – 105	
Gray Sand	105 – 124	
Shale	124 – 128	
Lime	128 - 130	
Shale	130 – 147	
Lime	147 – 177	
Shale (Slate 183 – 184)	177 – 186	
Lime	186 – 204	
Shale (Slate 207 – 208)	204 – 209	
Lime	209 – 211	
Shale	211 – 214	
Lime "Hertha"	214 – 220	Top Pawnee Limestone
Shale	220 – 259	
Lime	259 – 260	*0
Gray Sand "Knobtown"	260 – 262	
Shale	262 – 324	
Gray Sand	324 – 329	
Shale	329 – 358	
Gray Sand	358 – 362	Base Pawnee Limestone
Shale	362 – 399	Top Labette Shale
Lime	399 – 401	
Shale	401 – 404	
Lime	404 – 406	
Shale (Slate 411 – 412)	406 – 417	
Lime	417 – 424	
Shale	424 – 427	
Gray Sand	427 – 431	Base Labette Shale

Shale	431 – 443	Top Fort Scott
Lime	443 – 448	· BlackJack Creek Limestone
Shale (Slate 452 – 453)	448 – 469	Summit Coal
Gray Sand	469 – 471	
Sdy. Shale	471 – 501	Base Fort Scott
Very laminated Sand	501 – 502	Ton Suit Lo
Sandy Lime	502 – 503	Top - Squirrel Sandstone
Slightly lamin. Sand	503 – 504	
Sandy Lime	504 – 505	
Solid Sand	505 – 506.5	
Shale	506.5 – 507	
Slightly lamin. Sand	507 – 507.5	
Sandy Shale	507.5 – 509.5	
Solid Sand	509.5 – 510.5	
Sandy Lime	510.5 – 511.5	
Solid Sand	511.5 – 515.5	
Sandy Lime	515.5 – 518	
Solid Sand	518 – 520	
Sandy Lime	520 - 521	
Solid Sand	521 – 525	
Sandy Lime	525 – 526	
Laminated Sand	526 – 527	
Sandy Shale	527 - 528.5	
Sandy Lime	528.5 - 530	
Solid Sand	530 – 533	
Sandy Lime	533 – 534	
Sandy Shale	534 – 535	
Slightly laminated Sand	535 – 536.5	

Sandy Lime	536.5 – 538	
Solid Sand	538 – 539	
Lime and Shells	539 – 541	
Sand lamin. w/ Sandy Lime	541 – 542	
Lime and Shells	542 – 543	
Solid Sand	543 – 544.5	
Sandy Lime and Shells	544.5 – 547.5	
Sand and Shells	547.5 – 548.5	
Lime and Shells	548.5 – 552	
Solid Sand	552 – 553	
Lime and Shells	553 – 555.5	
Sand and Shells	555.5 – 559.5	
Lime and Shells	559.5 - 563.5	
Solid Sand	563.5 – 582.5	
Slightly laminated	582.5 - 583.5	
Shale and Shells	583.5 - 587.5	
Solid Sand	587.5 – 590.5	
Sand and Shells	590.5 - 591.5	
Solid Sand	591.5 – 593	
Lime	593 – 593.5	
Very laminated Sand	593.5 – 596	Base – Squirrel Sandstone
Shale (Slate 610 – 611)	596 – 616	Top – Verdigris
Lime	616 – 617	Ardmore Limestone
Shale (Slate 621 – 622)	617 – 650	Oakley Shale

Re: Closure Pressure

Attached is a reproduction from "Production Operations, Vol. 2" by Allen and Roberts describing the fracturing pressures in a reservoir.

The fracture propagation pressure is approximately the same as the closure pressure, although slightly higher. This difference is less significant in low pressure reservoirs such as the ones in the Cherokee Basin, consequently, they are considered to be the same. The fracture propagation pressure is the same as the instantaneous shut-in pressure (ISIP) experienced upon cessation of a hydraulic fracture treatment. The ISIP from a fracture procedure is the surface pressure measurement. Bottom-hole ISIP must be calculated by adding the surface ISIP and the product of the depth to mid-perforations (feet) and the pressure gradient of the fluid in the wellbore (psi/foot). For fresh water the fluid gradient is 0.434 psi/foot. Since the fluid in fracture operations is more dense than fresh water most engineers estimate the bottom-hole ISIP with a higher gradient. The state of Oklahoma uses a gradient of 0.50 psi/foot.

Utilizing ISIP's experienced at Belton, and a fresh water gradient of 0.434, the calculated bottom-hole ISIPs are:

WELL	DEPTH TO MID-PERF	ICID (CC.	
R32	626	ISIP (Surface)	ISIP (Perfs)
R32		400	672
	585	350	604
R31	600	400	660
R31	552	350	
R47	620	325	640
AD20	536		594
AD20		400	633
	582.5	400	653
AD9-2	610	400	665
AD9-2	507	400	
AD16-2	544		620
	511	400	636

The fracture propagation pressure is the pressure in which the aperture of the existing fractures can begin to be opened. An increase in injection rate is noted at this point on injection step-rate tests. At injection pressures at, or slightly above, the ISIP, the fractures in the immediate vicinity of the wellbore (inches) may be affected but not into the reservoir significantly. In actual injection operations of a waterflood at ISIP, fractures wouldn't be created beyond the region adjacent to the wellbore because of; 1) fluid leak-off into the formation, 2) the injection of a low viscosity fluid, and 3) the extremely low injection rates - far less than what is necessary to create a fracture.

minimum stress at the borehole, and must also overcome the tensile strength of the rock. This can be expressed as follows:

$$(P_i)_{\nu} = 3 \, \tilde{\sigma}_{h_2} - \tilde{\sigma}_{h_1} + S_h + P$$
 (5)

where:

(P_i), = borehole pressure required to initiate vertical fracture

 $\tilde{\sigma}_{s_i} = \text{maximum principal horizontal matrix}$ stress

 $\tilde{\sigma}_{k_2} = \text{minimum}$ principal horizontal matrix stress

 S_h = horizontal tensile strength of rock

P =formation pore pressure

Penetrating Fluid Reduces Breakdown Pressure— A penetrating fluid increases the area over which pressurized fluid contacts the formation and can reduce the pressure necessary to initiate fracturing.

Laboratory and theoretical work by Fairhurst and Haimson²¹ provides a basis for estimation of the magnitude of reduction in openhole. Generally reduction may be on the order of 25 to 40% in openhole.

Perforation Density and Orientation—Recent laboratory work in cased hole shows that breakdown or frac initiation pressure is affected by the number and arrangement of perforations.²²

The existence of casing and the arrangement of perforations have little effect on created fracture orientation, but breakdown pressure is reduced by increased number of perforations. The practice of perforating with all shots in a vertical line on one side of the casing, Figure 8-6 significantly increases

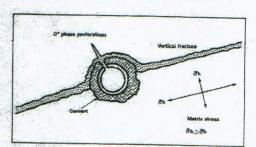


FIG. 8-6—Orientation of perforation vs. least horizontal matrix stress. Condition resulting in highest breakdown pressure:

breakdown pressure if the perforations happen to be oriented 90° to the azimuth of the vertical fracture plane. Orientation of perforations does not affect azimuth of the vertical fracture however.

Fracture Propagation

Once the fracture has been created and invaded by pressured fluid, the stress concentration near the wellbore is reduced, and the hydraulic pressure required to extend the fracture must merely overcome the component of the undisturbed stress field normal to the plane of the fracture.

Measuring Propagation Pressure and Frac Gradient—The fracture propagation pressure (and frac gradient) can be obtained during the fracing operation by recording the wellhead pressure immediately after the pumps are shut down following injection into the fracture (Figure 8-7). Since the frac gradient is increased by increased pore pressure, this measurement should be made before the pore pressure is significantly raised by the injected frac fluid.

Wellhead instantaneous shut-in pressure, corrected to the hole bottom by adding the hydrostatic pressure of the wellbore fluid column, is the fracture propagation pressure. Fracture gradient is the fracture propagation pressure divided by the formation depth.

Measuring Rock Matrix Stress—The minimum horizontal rock matrix stress is then:

 $\hat{\sigma}_{k_i}$ = propagation pressure - pore pressure

This stress is of particular interest because it is the stress which propping agents must withstand in order to hold the fracture open. In actual practice pore pressure can be equated to static reservoir pressure provided fracture propagation pressure is measured before significant frac fluid is injected to raise the pore pressure level near the wellbore.

It should be noted that proppant in the critical area near the wellbore is subjected to more stress than that further away due to lower pore pressure near the wellbore in the producing process, Figure 8-8. This effect may be significant at high drawdown pressures.

Fracture Orientation

Fracture Propagates Perpendicular to Smallest Stress-Rocks fracture in a plane perpendicular to Belton Unit, Cass County, Missouri

Re: Injection Volumes

Injection volumes are determined by using analogy from previous squirrel sandstone water floods that contain similar reservoir characteristics. In the case of the Belton Unit we plan to inject 1 barrel of water for every 1 net foot of oil bearing sandstone. (assuming this rate does not exceed the maximum approved injection pressure) Depending on the duration and impact of the surrounding wells some injection wells may ultimately inject 3 barrels of water for every 1 net foot of oil bearing sandstone.

Due to the permeability variance of the reservoir we typically will not exceed 15' of perforations per injection well.

Example;

Year 1

15' perforations x 1 bbl/ft = 15 BPD injection rate

Year 2

15' perforations x 2 bbls/ft = 30 BPD injection rate

Year 3

15' perforations x 3 bbls/ft = 45 BPD injection rate

We typically do not exceed 3 bbls/ft injection rate, which is why we are requesting only 50 BPD rate.

INSTRUCTIONS

7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	WELL	.))				חזיים	7.41	
0000	NO.	1	OWNER	DEPTH	TYPE	SPUDDED	COMPLETED	CONSTRUCTION
Belton Unit	R-1	369 FROM (M)(S) SEC LINE 3412 FROM (E) (M)SEC LINE SEC 16 1.46 N.R. 33W	K.R.E.D.	619'	0	04/08/1999	04/13/1999	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-2	1484 FROM (1)(S) SEC LINE 1424 FROM (E)(M) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	600'	0	06/04/1999	06/10/1999	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-3	14 34 FROM (M/S) SEC LINE 2-1133 FROM (E) (M) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	665'	0	02/29/2000	03/02/0200	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-4	2012 FROM(W(S) SEC LINE 2012 FROM (E)(W) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	680'	0	03/02/2000	03/07/2000	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-5	168 FROM (N)S) SEC LINE 240 6FROM (E)(1) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	639'	0	04/23/2000	04/25/2000	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-6		K.R.E.D	608'	0	04/27/2000	04/28/2000	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-7	571 FROM (S) SEC LINE (2011) FROM (E) (2015) SEC LINE (E) (2015) SEC. 16 T. 46 N.R. 33W	K.R.E.D	646'	0	05/01/2000	05/02/2000	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-8	3874 FROM (N)S) SEC LINE 3874 FROM (E)(N) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	655'	0	05/05/2000	05/08/2000	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-9	SEC. 16 T. 46 N.R. 33W	K.R.E.D	651'	0	05/03/2000	05/05/2000	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
MO 780-1136 (02-11)								

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

completion of information, detailing the cement, casing, and subsurface casing information.

MO /80-1136 (02-11)	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	
	R-18	R-17	R-16	R-15	R-14	R-13	R-12	R-11	R-10	
	SEC. 16 T. 46 N.R. 33W	SEC. 16 T.46 N.R. 33W	FROM (E) SEC LINE 25116 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W	5/3 FROM (S) SEC LINE 5335 FROM (E) (M) SEC LINE SEC. 16 146 N.R. 33W	174 FROM (WS) SEC LINE 33-30 FROM (E) (M) SEC LINE SEC. 16 T.46 N.R. 33W	94 1 FROM (N)(S) SEC LINE 98 3 FROM (E)(1) SEC LINE SEC. 16 1,46 N.R. 33W	FROM (E) (W) SEC LINE SEC. 16 T. 46 N.R. 33W	SEC. 16 T. 46 N.R. 33W		
	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D.	
	914.5'	686'	652.5'	621'	637'	620'	642'	626'	627'	
	0	0	0	0	0	0	0	0	0	
	01/07/2004	01/29/2004	10/13/2003	12/15/2000	09/17/2001	05/22/2000	05/16/2000	05/10/2000	05/15/2000	0.00000
	01/09/2004	01/30/2004	10/15/2003	12/20/2000	09/19/2001	05/24/2000	05/18/2000	05/12/2000	05/16/2000	COMPLETED
	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	

INSTRUCTIONS

Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	
	-	-						Unit	ľ
RI-2	R - 1	R-25	R-24	R-23	R-22	R-21	R-20	R-19	NO.
\$52 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W	SEC. 16 T.46 NR. 33W		SEC. 16 T. 46 N.R. 33W	SEC. 16 T. 46 N.R. 33W	FROM (N) SEC LINE SEC. 16 1.46 N.R. 33W	TO FROM (N)(SYSEC LINE TO STROM (SYM) SEC LINE SEC. 16 T. 46 N.R. 33W	R-20 FROM (N)(S) SEC LINE R-20 FROM (E)(W) SEC LINE SEC. 16 T. 46 N.R. 33W	2010FROM (E) (M) SEC LINE SEC 16 T 46 N.R. 33W	1199
K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D.	OWNER
627'	623'	660'	658'	660'	660'	635'	661'	621.5'	מברות
_	Plugged	0	0	0	0	0	0	0	ITPE
U	07/26/2000	U	01/25/2008	U	12/04/2008	01/14/2008	01/18/2008	02/12/2004	SPUDDED
C	08/31/2000	で)ア	NA	NIN	NIX	01/16/2008	01/22/2008	02/13/2004	COMPLETED
4 1/2" casing cemented to surface	4 1/2" casing comented to surface Flugged (1) 37 - Syntare of Certain to 123 - Syntare of	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	CONSTRUCTION

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

completion of information, detailing the cement, casing, and subsurface casing information.

								MO 780-1136 (02-11)	عوريد
4 1/2" casing cemented to surface	01/15/2004	01/13/2004	-	647.5'	K.R.E.D	RW-9 ATTOROM (EM) SECLINE	RW-9	Belton Unit	
4 1/2" casing cemented to surface	02/13/2004	02/12/2004	-	641.5'	K.R.E.D	SEC. 16 T.46 N.R. 33W	RW-8	Belton Unit	
4 1/2" casing cemented to surface Plugged 6/3-7/13 - Squer	02/11/2004	02/10/2004	8)ugged	638'	K.R.E.D	374 FROM((s) SEC LINE 3115 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W	RW-7	Belton Unit	
Squeezed	C	V	Plugged	571'	K.R.E.D	110 FROM (N/S) SEC LINE 1341 FROM (E/M) SEC LINE SEC. 16 T 46 N.R. 33W	C-18	Belton Unit	
	04/14/2001	04/16/2001	¥	891'	K.R.E.D	WSW-13521 FROM (E(W) SEC LINE SEC. 16 T.46 N.R.33W	WSW-1	Belton Unit	
4 1/2" casing comented to surface Plugged 6/27/12 - Spreen	C	\ \	Physical	644'	K.R.E.D	367 FROM (S) SEC LINE 3187 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W	RI-6	Belton Unit	TATE OF THE PARTY
4 1/2" casing cemented to surface	U	U	-	637'	K.R.E.D	790 FROM (8) (8) SEC LINE (9) SEC LINE (9) SEC LINE (9) SEC LINE (9) SEC. 16 T. 46 N.R. 33W	RI-5	Belton Unit	
4 1/2" casing cemented to surface	08/29/2000	08/25/2000	-	641'	K.R.E.D	2202 FROM(N/S) SEC LINE 2202 FROM (E) (0) SEC LINE SEC. 16 T. 46 N.R. 33W	R 4	Belton Unit	
4 1/2" casing cemented to surface	C	U	_	635'	K.R.E.D.	(2) FROM((8) SEC LINE (1) SEC LINE (1) SEC 16 T. 46 N.R. 33W	RI-3	Belton Unit	
CONSTRUCTION	DATE COMPLETED	DATE SPUDDED	TYPE	DEPTH	OWNER	LOCATION	WELL NO.	LEASE	

INSTRUCTIONS

LEASE	WELL	LOCATION	OWNER	DEBTU	1	DATE	DATE	
	3	STOPEROM NINES SECTIONE			1176	SPUDDED	COMPLETED	CONSTRUCTION
Belton Unit	RW-10	RW-10 FROM (E) SEC LINE	K.R.E.D.	678'	_	02/02/2004	02/03/2004	4 1/2" casing cemented to surface
		SEC. 16 T. 46 N.R. 33W						
Belton Unit	RW-11	RW-11 23 FROM (E) (C) SEC LINE	X R II D	650'	-			4 1/2" casing cemented to surface
		SEC. 16 T. 46 N.R. 33W				!	00000000	
		FROM ()(S) SEC LINE						
Belton Unit	RW-13	RW-13 BY AFROM (E) SEC LINE	K.R.E.D	697'	-	02/06/2004	02/09/2004	4 1/2" casing cemented to surface
		SEC. 16 T. 46 N.R. 33W						
Belton Unit	RW-15	RW-15 FROM (I)(W) SEC LINE	K.R.E.D	660'	_	11/26/2008	(c)	4 1/2" casing cemented to surface
		SEC. 16 T. 46 N.R. 33W			893		1/4	
Belton Unit	RW-16	FROM (N) SEC LINE	K.R.E.D	660'	_	12/02/2008	ナ/ド	4 1/2" casing cemented to surface
		SEC. 16 T. 46 N.R. 33W					14/14	
Belton Unit	RW-19	RW-19 ROM (N(S)SEC LINE	K.R.E.D	661'	-	12/08/2008	2	4 1/2" casing cemented to surface
		SEC. 16 T. 46 N.R. 33W					10/50	
Belton Unit	AD-1	A 420 FROM (E)W) SEC LINE	K.R.E.D	615'	0	12/03/2007	01/04/2008	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and input sums
	-	SEC. 9 T. 46 N.R. 33W						3 or roas and most build
Belton Unit	AD-2	AD-2 2000 FROM (E)(W) SEC LINE	7	2)			4 1/2" casing cemented to surface
	(0)	SEC. 9 T. 46 N.R. 33W	7.7.17.0	65/	O	12/06/2007	12/10/2007	2 3/8" tubing 3/4" rods and insert pump
	In	ALA FROM (N S) SEC LINE						
Belton Unit	AD-3	3806 FROM (E)(6) SEC LINE	K.R.E.D	637'	0	08/31/1987	:	4 1/2" casing cemented to surface
	(0	SEC. 9 T. 46 N.R. 33W					C	For world of Long and insert pump
10 /80-1136 (02-11)								

INSTRUCTIONS

MO 780-1136 (02-11)	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	LEASE
02-11)										100.00
	AD-12	AD-11	AD-10	AD-9	AD-8	AD-7	AD-6	AD-5	AD-4	WELL NO.
	SEC. 9 1.46 N.R. 33W	621 FROM (N) SEC LINE 478 FROM (E) SEC LINE SEC. 9 T. 46 N.R. 33W	423 FROM (NX) SEC LINE 423 FROM (E) (NX) SEC LINE SEC. 9 T. 46 N.R. 33W	3835 FROM (NG) SEC LINE SEC. 9 T.46 N.R.33W	3401 FROM (NX) SEC LINE 3401 FROM (E) WSEC LINE SEC. 9 T. 46 N.R. 33W	2981 FROM (N(S)) SEC LINE 2981 FROM (E) SEC LINE SEC. 9 T. 46 N.R. 33W	211 FROM (NS)SEC LINE \$180 FROM (E) (W) SEC LINE SEC. 9 T. 46 N.R. 33W	220 FROM (N) SEC LINE 4716 FROM (E) SEC LINE SEC. 9 T. 46 N.R. 33W	FROM (N) SEC LINE FROM (E) SEC LINE SEC. 9 T. 46 N.R. 33W	LOCATION
	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D.	OWNER
	710'	665'	659'	662'	622'	630'	708'	679'	666'	DEPTH
	0	Plugged	0	Plugged	0	0	0	0	0	TYPE
	01/23/2008	4361	05/25/1987	08/25/1987	05/14/1999	12/12/2007	01/31/2008	06/21/1987	07/14/1987	DATE SPUDDED
	02/26/2008	14841	07/21/1987	186 C	05/27/1999	12/14/2007	02/19/2008	06/25/1987	07/16/1987	DATE
	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface Squeezed cement into formation to surface on 03/19/2012	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface Squeezed cement into formation to surface on 04/04/2012	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	CONSTRUCTION

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other completion of information, detailing the cement, casing, and subsurface casing information. specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

MO 780-1136 (02-11) Belton Unit Belton Unit Belton Unit Belton Unit **Belton Unit** Belton Unit Belton Unit Belton Unit Belton Unit AD-22 AD-23 AD-18 AD-17 AD-21 AD-16 4225 FROM (E) SEC LINE AD-15 AD-14 3405 FROM (E) SEC LINE AD-13 2420FROM (M) SEC LINE WELL NO. SEC. 9 FROM (NO SEC LINE 1212 FROM (E) SEC LINE 535 FROM (N) SEC LINE FROM (E) SEC LINE TSO FROM (E) SEC LINE 300 FROM (N) SEC LINE S39 FROM (N) SEC LINE SEC. 9 SEC. 9 T. 46 SEC. 9 100 FROM (N) SEC LINE SEC. 9 210 FROM (N) SEC LINE FROM (N) SEC LINE PO FROM (N SEC LINE T. 46 N.R. 33W T. 46 N.R. 33W LOCATION T. 46 T. 46 N.R. 33W T. 46 N.R. 33W N.R. 33W N.R. 33W N.R. 33W N.R. 33W N.R. 33W K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D OWNER 676.5 644 650 656 647 666 617 DEPTH 609 700' Plugged Plugged TYPE 0 0 0 0 0 0 0 09/09/2003 09/11/2003 01/02/2008 06/13/1999 07/23/1987 11/13/1989 12/21/2007 04/21/1999 SPUDDED 1-1987 09/11/2003 06/18/1999 09/12/2003 て/ア 02/26/2008 11/14/1989 DATE COMPLETED 05/13/1999 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface Squeezed cement into formation to surface on 04/04/2012 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump Cemented from bottom to top on 12/27/2007 CONSTRUCTION

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other completion of information, detailing the cement, casing, and subsurface casing information. specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

MO 780-1136 (02-11) Belton Unit LEASE ADI-27 ADI-26 ADI-24 3621 FROM (E)(W) SEC LINE ADI-25 **ADI-18 ADI-19** AD-24 AD-28 AD-29 WELL NO. SEC. 9 T. 46 N.R. 33W

1910 FROM (N) SEC LINE

1 100 FROM (E) SEC LINE SEC. 9 T. 46 N.R. 33W 1991 FROM (N) SSEC LINE 1445 FROM (E) (W) SEC LINE 500 FROM (B)(W) SEC LINE FROM (E) SEC LINE SEC. 9 SEC. 9 1. TO SEC LINE 4421 FROM (E)(SEC LINE Y15 FROM (E) ((1) BEC LINE PROM (E) SEC LINE 1354 FROM (N)(SEC LINE SEC. 9 SAOFROM (N) SEC LINE TS FROM (NIC SEC LINE 979 FROM (N) SEC LINE 300 FROM (1)(W) SEC LINE FROM (N) SEC LINE SEC. 9 T. 46 N.R. 33W T. 46 N.R. 33W T. 46 LOCATION T. 46 T. 46 N.R. 33W T. 46 N.R. 33W T. 46 N.R. 33W N.R. 33W N.R. 33W N.R. 33W K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D 674.1 651.5" 654.5 650.5 651.5 672.5 625 662 629 0 0 0 01/04/2008 09/17/2003 09/12/2003 09/16/2003 06/18/1999 10/07/2003 10/09/2003 07/08/1999 SPUDDED 2/27/2007 04/16/2008 09/19/2003 09/15/2003 09/17/2003 07/07/1999 07/14/1999 DATE 10/08/2003 10/10/2003 02/06/2008 4 4 4 4 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 4 1/2" casing cemented to surface 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 1/2" casing cemented to surface CONSTRUCTION

INSTRUCTIONS

	1							
LEASE	NO.	LOCATION	OWNER	DEPTH	TYPE	SPUDDED	DATE COMPLETED	CONSTRUCTION
Belton Unit	ADI-30	ADI-30 FROM (B(W) SEC LINE	K.R.E.D.	627.7'	-	12/19/2007	04/16/2008	4 1/2" casing cemented to surface
		SEC. 9 T. 46 N.R. 33W					11 23 24 24 24 24 24 24 24 24 24 24 24 24 24	
		860 FROM (N) SEC LINE						
Belton Unit	ADI-31	ADI-31 Sec LINE	K.R.E.D	633'	-	05/27/1999	06/04/1999	4 1/2" casing cemented to surface
		SEC. 9 T. 46 N.R. 33W						
		871 FROM (N) S SEC LINE						
Belton Unit	ADI-32	FROM (E) SEC LINE	K.R.E.D	649'	_	=		4 1/2" casing cemented to surface
		IICO				(<	
Belton Unit	ADI-33	ADI-33 ROM (E) SEC LINE	K.R.E.D	642'	_	•		4 1/2" casing cemented to surface
		SEC. 9 T. 46 N.R. 33W			3	<	<	
Belton Unit	ADI-34	1801 FROM (E) SEC LINE	K.R.E.D	663	_	٥		4 1/2" casing cemented to surface
		SEC. 9 T. 46 N.R. 33W				•	(
Belton Unit	ADI-37	ADI-37 PROM (E)W) SEC LINE	K.R.E.D	618.2	_	12/13/2007	04/16/2008	4 1/2" casing cemented to surface
		SEC. 9 T. 46 N.R. 33W						
Belton Unit	ADI-38	FROM (N) SEC LINE	K.R.E.D	668.9'	-	12/17/2007	04/16/2008	4 1/2" casing cemented to surface
		SEC. 9 T. 46 N.R. 33W						
Belton Unit	ADI-39	HDD FROM (E W)SEC LINE	K.R.E.D	631'	-			4 1/2" casing cemented to surface
		SEC. 9 T. 46 N.R. 33W				<	(
Belton Unit	ADI-40	441 FROM (N)S) BEC LINE FROM (E) W) SEC LINE	K.R.E.D	664'	_	=	<u>ر</u>	4 1/2" casing cemented to surface
		SEC. 9 T. 46 N.R. 33W				<	(
MIC 100-1130 (02-11)								

INSTRUCTIONS

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completion of information, detailing the cement, casing, and subsurface casing information.

						SEC. 16 T. 46 N.R. 33W	=	MO 780-1136 (02-11)
Squeezed cement into formation to surface	C	<u></u>	Plugged	600 est	K.R.E.D	138 FROM (N)(S) S	ОН-8	Belton Unit
Squeezed cement into formation to surface	<u></u>	<	Plugged	600' est	K.R.E.D	753 FROM (NS) 21040 FROM (E) SEC. 16 T. 46	OH-7	Belton Unit
Squeezed cement into formation to surface	<	<u></u>	Plugged	600' est	K.R.E.D	919 FROM(N)(S 571 6-ROM (E)(SEC. 16 T. 46	0Н-6	Belton Unit
4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	<	<	0	600' est	K.R.E.D	833 FROM (A) SEC LINE 2)24 FROM (E) (M) SEC LINE SEC. 16 T. 46 N.R. 33W	ОН-5	Belton Unit
4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	U	<	0	600' est	K.R.E.D	SEC. 16 T. 46	OH-4	Belton Unit
4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	<u>_</u>	<	0	600' est	K.R.E.D	141	OH-3	Belton Unit
4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	<	C	0	600' est	K.R.E.D	110	OH-2	Belton Unit
4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	C	C	0	600' est	K.R.E.D	3406 FROM (E)(W) SEC. 16 T. 46	OH-1	Belton Unit
4 1/2" casing cemented to surface	C	C	-	600' est	K.R.E.D.		ADI-41	Belton Unit
CONSTRUCTION	DATE	DATE	TYPE	DEPTH	OWNER		WELL NO.	LEASE

INSTRUCTIONS

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completion of information, detailing the cement, casing, and subsurface casing information.

Clark-Berry	Clark-Berry	Clark-Berry	Clark-Berry	Clark-Berry	Belton Unit	Belton Unit	Belton Unit	Belton Unit	LEASE
CBI-1	CB-4	CB-3	CB-2	CB-1	UK-3	UK-2	UK-1	ОН-9	NO.
SEC. 16 T. 46 N.R. 33W	3124 FROM (N/S) SEC LINE 3124 FROM (E) (N) SEC LINE SEC. 16 1.46 N.R. 33W	FROM(N)(S) SEC LINE SEC. 16 T. 46 NR. 33W	300 FROM(N)(S) SEC LINE 300 FROM (E)(M)SEC LINE SEC. 16 T. 46 N.R. 33W	SEC. 16 T.46 N.R. 33W	SEC. 16 1. 46 N.R. 33W	FROM (N) SEC LINE THE FROM (B) (W) SEC LINE SEC. 16 T. 46 N.R. 33W	1300 FROM (N S) SEC LINE 1300 FROM (E) W) SEC LINE SEC. 16 T. 46 N.R. 33W	\$222 FROM (R)(\$) SEC LINE \$222 FROM (E)(\$) SEC LINE SEC. 16 T. 46 N.R. 33W	
K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D.	OWNER
629'	619'	625'	625'	625'	C	С	U	600' est	DEPTH
-	0	0	0	0	0	Plugged	Plugged	Plugged	TYPE
03/22/1999	03/30/1999	03/25/1999	C	03/22/1999	C	C	C	U	DATE
03/25/1999	04/02/1999	03/30/1999	<	<u></u>	C	C	V	V	DATE COMPLETED
4 1/2" casing cemented to surface	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	2 7/8" with 1" tubing and insert pump	2 7/8" with 1" tubing and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface Squeezed cement into formation to surface on 04/17/2012	4 1/2" casing cemented to surface Squeezed cement into formation to surface on 04/17/2012	Squeezed cement into formation to surface	CONSTRUCTION

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

MO 780-1136 (02-11) Clark-Berry LEASE CBI-2 WELL NO. SEC. SEC. SEC. SEC. SEC Da 33 FROM (E)(W) SEC LINE SEC. 16 T. 46 N.R. 33W 348 FROM (N)(S) SEC LINE FROM (N)(S) SEC LINE FROM (N)(S) SEC LINE FROM (E)(W) SEC LINE FROM (N)(S) SEC LINE FROM (E)(W) SEC LINE FROM (E)(W) SEC LINE FROM (E)(W) SEC LINE FROM (N)(S) SEC LINE FROM (E)(W) SEC LINE FROM (N)(S) SEC LINE FROM (E)(W) SEC LINE FROM (E)(W) SEC LINE FROM (N)(S) SEC LINE FROM (E)(W) SEC LINE FROM (N)(S) SEC LINE FROM (N)(S) SEC LINE T. N.R. LOCATION I. N.R. N.R. N.R. N.R. N.R. K.R.E.D OWNER DEPTH 634 TYPE 04/02/1999 SPUDDED 04/07/1999 DATE COMPLETED 1/2" casing cemented to surface CONSTRUCTION

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

completion of information, detailing the cement, casing, and subsurface casing information.

						- 11		MO 780-1136 (02-11)	
733.5' of 4 1/2" casing cemented to surface	04/30/2012	04/02/2012	0	760'	K.R.E.D	FROM (N) (D) SEC LINE SEC. 16 T. 46 N.R. 33W	R-36	Belton Unit	
663' of 4 1/2" casing cemented to surface	05/10/2012	03/21/2012	0	700'	K.R.E.D.	FROM (N) SEC LINE (N) SEC LINE (N) SEC LINE (N) SEC LINE (N) SEC. 16 T. 46 N.R. 33W	R-33	Belton Unit	
743' of 4 1/2" casing cemented to surface	05/25/2012	03/14/2012	0	750'	K.R.E.D.	SEC. 16 T. 46 N.R. 33W	R-32	Belton Unit	
740' of 4 1/2" casing cemented to surface	04/27/2012	03/27/2012	0	750'	K.R.E.D	36 FROM (N)(6))SEC LINE 300 FROM (6)W) SEC LINE SEC. 16 T. 46 N.R. 33W	R-31	Belton Unit	
697' of 4 1/2" casing cemented to surface	04/30/2012	03/23/2012	0	750'	K.R.E.D.	TAC JFROM (N) SEC LINE SEC. 16 T. 46 N.R. 33W	R-30	Belton Unit	
740' of 4 1/2" casing cemented to surface	05/10/2012	03/24/2012	0	750'	K.R.E.D	1076 FROM (N) SEC LINE 1076 FROM (B) (W) SEC LINE SEC. 16 T. 46 N.R. 33W	R-29	Belton Unit	
656' of 2 7/8" casing cemented to surface	<u> </u>	04/10/2012	0	681'	K.R.E.D	R-28 3811 FROM (N)(E)SEC LINE R-28 3811 FROM (E)M) SEC LINE SEC. 16 T. 46 N.R. 33W	R-28	Belton Unit	
685' of 2 7/8" casing cemented to surface	·	04/06/2012	0	700'	K.R.E.D	3818 FROM (N)(6) SEC LINE 3818 FROM (5)(W) SEC LINE SEC. 16 T. 46 N.R. 33W	R-27	Belton Unit	
Set 21 feet of 8 5/8" surface pipe Squeezed cement from 643' to surface to plug well on 04/17/2012	Not	03/08/2012	Plugged	643'	K.R.E.D	5100 FROM (N) \$3 SEC LINE 5774 FROM (E) W) SEC LINE SEC. 16 T. 46 N.R. 33W	R-26	Belton Unit	
CONSTRUCTION	DATE	DATE SPUDDED	TYPE	DEPTH	OWNER	LOCATION	WELL NO.	LEASE	

INSTRUCTIONS

		g g			0		The second second	
LEASE	NO.	LOCATION	OWNER	DEPTH	TYPE	SPUDDED	COMPLETED	CONSTRUCTION
Belton Unit	R-41 33	R-41 3 740 FROM (D(W) SEC LINE	K.R.E.D	643'	0	06/12/2012	Not	of 4 1/2" casing cemented to surface
	SE	SEC. 16 T. 46 N.R. 33W					Come Kt	
Dollon Init		ROM (N)(E)	1					687' of 4 1/2" casing cemented to surface
Belton Unit	R-42 32	TAG N.B. 33W	K.R.E.D	980'	0	06/06/2012	(
	SE	SEC. 16 T. 46 N.R. 33W					<	
Belton Unit	R-43	R-43 FROM (E)(W) SEC LINE	K.R.E.D	770'	0	05/09/2012	05/30/2012	740' of 4 1/2" casing cemented to surface
	SE	SEC. 16 T. 46 N.R. 33W						
Dollar Initial	S S S S S S S S S S S S S S S S S S S	3300 FROM (N)(S)SEC LINE 3570 FROM (D)(N) SEC LINE		760)			727' of 4 1/2" casing cemented to surface
	SE	SEC. 16 T. 46 N.R. 33W			j			
Belton Unit	R-47	1545 FROM (N)(E)SEC LINE	K.R.E.D.	760'	0	05/08/2012	06/01/2012	728' of 4 1/2" casing cemented to surface
	SE	SEC. 16 T. 46 N.R. 33W						
Belton Unit	R-48	R-48 3587 FROM (N) SEC LINE	X.R.E.D	770'	0	07/18/2012	Not	750' of 2 7/8" casing cemented to surface
	SE	SEC. 16 T. 46 N.R. 33W					(amp) etc	
Belton Unit	R-49	R-49 2114 FROM (D)(W) SEC LINE	K.R.E.D.	730'	0	06/30/2012		718' of 2 7/8" casing cemented to surface
	SE	c. 16 T. 46 N.R. 33W						
	40	105 & FROM (N) SEC LINE						700' of 4 1/2" resing remented to surface
Belton Unit	R-51 85	R-51 8518 FROM (E)(W) SEC LINE	K.R.E.D.	730'	0	06/08/2012	_	OO OF 4 1/2 casing centented to surface
	SE	SEC. 16 T. 46 N.R. 33W					4	
		S)(N) MOS						
		FROM (E)(W) SEC LINE						
	SEC.	J. N.R.						

INSTRUCTIONS

the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other completion of information, detailing the cement, casing, and subsurface casing information. In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

MO 780-1136 (02-11) **Belton Unit** Belton Unit SEC. 16 T. 46 N.R. 33W

1615 FROM (N) SSEC LINE

RW-27 FROM (H) SEC LINE SIII FROM (N)S) BEC LINE
RW-25 834 FROM (N)N) SEC LINE SEC.16 T.46 N.R. 33W **21,372** FROM (N) SEC LINE RW-23 **1433** FROM (**G**) (W) SEC LINE RW-22 1087 FROM (N)(6) SEC LINE RW-39 TOFROME (W) SEC LINE FROM (N)(O) SEC LINE
RW-38 FAM FROM (E)(M) SEC LINE RW-37 BACK FROM (E)(W) SEC LINE RW-26 RW-24 SI36 FROM (N) SEC LINE SEC. 16 T. 46 N.R. 33W 2117 FROM (N) & SEC LINE SEC. 16 T. 46 N.R. 33W

437 FROM (N) SEC LINE

FROM (E) W) SEC LINE 185 FROM (N)(6) BEC LINE SEC. 16 T. 46 N.R. 33W LOCATION T. 46 N.R. 33W K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D OWNER DEPTH 730 720' 730' 730 750 730 730' 720 730' TYPE 07/03/2012 05/16/2012 05/14/2012 05/29/2012 05/23/2012 05/18/2012 05/30/2012 05/22/2012 06/01/2012 SPUDDED 207 ampleto ompto DATE 07/09/2012 07/06/2012 07/17/2012 07/09/2012 07/17/2012 07/06/2012 687' of 2 7/8" casing cemented to surface 565' of 2 7/8" casing cemented to surface 691' of 2 7/8" casing cemented to surface 686' of 2 7/8" casing cemented to surface 695' of 2 7/8" casing cemented to surface 682' of 2 7/8" casing cemented to surface 692' of 2 7/8" casing cemented to surface 711' of 2 7/8" casing cemented to surface 696' of 2 7/8" casing cemented to surface CONSTRUCTION

INSTRUCTIONS

								MO 780-1136 (02-11)	
	Complet					SEC. 16 T. 46 N.R. 33W			
obstate to suitable to suitabl		06/30/2012	_	730'	K.R.E.D.	RW-50 PKFROM (M) SEC LINE	RW-5	Belton Unit	
RED of 2 7/0" procing promoted to stuffen	C)+					FROM (N) SEC LINE			
						SEC. 16 T. 46 N.R. 33W			
or or end casing cantained to surface	07/17/2012	06/13/2012	-	730'	K.R.E.D.	RW-49 FROM ()(W) SEC LINE	RW-4	Belton Unit	
675" of 2 7/8" casing comented to surface						FROM (N) SEC LINE			_
	-					SEC. 16 T. 46 N.R. 33W			_
681' of 2 7/8" casing cemented to surface	<u></u>	07/13/2012	-	730'	K.R.E.D.	RW-48 TS FROM (N) SEC LINE	RW-4	Belton Unit	
						SEC. 16 T. 46 N.R. 33W			
689' of 2 7/8" casing cemented to surface		07/13/2012	-	730'	K.R.E.D.	RW-47 2713 FROM (E) W) SEC LINE	RW-4	Belton Unit	
						SEC. 16 T. 46 N.R. 33W			_
687' of 2 7/8" casing cemented to surface		07/13/2012	=	730'	K.R.E.D.	RW-46 3184 FROM (N) SEC LINE	RW-4	Belton Unit	
						SEC. 16 T. 46 N.R. 33W			
684' of 2 7/8" casing cemented to surface		07/11/2012	-	730'	K.R.E.D.	RW-45 3133 FROM (D(W) SEC LINE	RW-4	Belton Unit	
	Campet		= 4.			SEC. 16 T. 46 N.R. 33W			_
690' of 2 7/8" casing cemented to surface	Not	06/28/2012		730'	K.R.E.D.	RW-443185 FROM (N)S SEC LINE	RW-4	Belton Unit	
						SEC_16 T_46 N.R. 33W			
672' of 2 7/8" casing cemented to surface	07/17/2012	06/14/2012	_	700'	K.R.E.D.	> 470	RW-4	Belton Unit	
	Jamplet					SEC. 16 T. 46 N.R. 33W			
687' of 2 7/8" casing cemented to surface	468	07/03/2012	-	730'	K.R.E.D.	RW-46 THOS FROM (E)W) SEC LINE	RW-4	Belton Unit	
CONSTRUCTION	DATE	SPUDDED	TYPE	DEPTH	OWNER	LOCATION	WELL NO.	LEASE	

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

completion of information, detailing the cement, casing, and subsurface casing information. Belton Unit AD-33 AD16-2 D&L FROM (B)(W) SEC LINE AD11-2 FROM (N) SEC LINE AD-26 AD-20 AD-32 AD-31 2347 FROM (M) SEC LINE AD 9-2 STOP FROM (N) (D) SEC LINE AD-27 WELL NO. SEC. 9 SEC. 9 HO FROM (D)(M) SEC LINE -346 FROM (NYS) SEC LINE SEC. 9 HT FROM (E)(W) SEC LINE 1960 FROM (B)(W) SEC LINE SEC. 9 T. 46 N.R. 33V 1476FROM (D(M) SEC LINE 1891 FROM (B)(W) SEC LINE 435 FROM (N) SEC LINE 485 FROM (N) SEC LINE SAUFROM (N) SEC LINE SEC. 9 SEC. 9 T. 46 N.R. 33W FROM (N) SEC LINE T. 46 N.R. 33W LOCATION T. 46 N.R. 33W T. 46 N.R. 33W K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D. K.R.E.D OWNER DEPTH 760' 701 760' 770 760 760' 760' 750' 760' TYPE 0 0 0 0 0 0 0 0 0 04/12/2012 04/06/2012 03/30/2012 03/29/2012 04/03/2012 04/05/2012 03/28/2012 03/12/2012 03/30/2012 SPUDDED 10V Complete 07/04/2012 DATE 06/28/2012 06/13/2012 06/13/2012 04/27/2012 04/27/2012 06/11/2012 05/07/2012 688' of 2 7/8" casing cemented to surface 741' of 4 1/2" casing cemented to surface 741' of 4 1/2" casing cemented to surface 745' of 4 1/2" casing cemented to surface 745' of 4 1/2" casing cemented to surface 740' of 4 1/2" casing cemented to surface 739' of 4 1/2" casing cemented to surface 737' of 4 1/2" casing cemented to surface 741' of 4 1/2" casing cemented to surface CONSTRUCTION

MO 780-1136 (02-11)

INSTRUCTIONS

LEASE	WELL NO.	LEASE WELL LOCATION OWNER DEPTH TYPE SPUDDED	OWNER	DEPTH	TYPE	DATE	DATE	CONSTRUCTION
		FROM (N) SEC LINE						713' of 4 1/2" casing cemented to surface
Belton Unit	AD 3-1	FROM (W) SEC LINE	K.R.E.D.	770'	0	06/15/2012	7	
		FROM (N)(C)						724' of 4 1/2" casing cemented to surface
Belton Unit	AD 4-2	TES OF AS	K.R.E.D.	770'	0	06/22/2012		
		SEC. 9 T. 46 N.R. 33VV						704 6 4 4 70
Belton Unit	AD 5-2	640 FROM (B)(W) SEC LINE	K.R.E.D.	770'	0	06/20/2012		721 014 1/2 casing cemented to surface
		SEC. 9 T. 46 N.R. 33W					4	
Belton Unit	AD-34	AD-34 PROM (P)(V) SEC LINE	K.R.E.D	700'	0	05/04/2012	07/09/2012	686' of 4 1/2" casing cemented to surface
		SEC. 9 T. 46 N.R. 33W						
Relton Unit	ADI-42	1987 FROM (N) SEC LINE	R R T D	730'	-	07/19/2012	Not	686' of 2 7/8" casing cemented to surface
		SEC. 9 T. 46 N.R. 33W					Complete	
		FROM (N)(S)						
		FROM (E)(VV)						
		FROM (N)(S) SEC LINE						
		FROM (E)(W) SEC LINE						
		SECTN.R						
		FROM (N)(S) SEC LINE		e				
		FROM (E)(W) SEC LINE						
		SEC. T. N.R.						
		FROM (N)(S) SEC LINE						
		FROM (E)(W) SEC LINE						
		SEC. T. N.R.						

AFFIDAVIT OF PUBLICATION

(Space above for recording information)

STATE OF MISSOURI COUNTY OF CASS

I, Janis Anslinger, being duly sworn according that I am the Classified Ad Manager of the Cass Co Missourian, a weekly newspaper of general ci County of Cass, State of Missouri, where newspaper has been admitted to the Post Office class matter in the City of Harrisonville, Misso publication; which newspaper has been published consecutively for a period of three years and bonafide subscribers, voluntarily engaged as s paid or agreed to pay a stated price for a subdefinite period of time, and that such newspaper with the provisions of Section 493,050, Revise Missouri 2000, and Section 59.310, Revised Missouri 2000. The affixed notice appeared in said the following consecutive issues:

14 Insertion: Vol	132 No 3	1 29	_ day of _
24 Insertion, Vol.	No		_ day of
37 Insertion: Vol.	No		_ day of
4º Insertion: Vol	No		_ day of
52 Invertion: Vol.	No		due of

662311 has applied for 32 injection well permits to be drilled to an arioxi nate de Salox: for will be injected into the Squirrel Sandsdone formation for) Enhanced (th of 650 feet sed Oil Recovery Project at the following locations

saw-71 5,095' from 5 line/1,867' from E line, Section 16, Touchip 46N, Runge 33W aRW-72 3.851 from 5 line/3,199 from E line, Section 16, Britiship 46N, Range 33W aRW-73 3,842 from 5 line/3,195 from E line, Section 35, Switchip 46N, Range 33W #KW-24 3,856 from 5 line/2,765 from 6 line, Section 15, ownship 46N, Range 33W arw-75 3.847 from 5 line/2.7637 from E line, Section 16 ownship 46N, Range 33W BIW-75 3.847 from 5 line/2.767 from E line, Section 16 covinsing 46N, Range 33W asW-75 3.478 from 5 line/3.198 from E line, Section 16 cownship 46N, Range 33W asW-77 3.473 from 5 line/3.190 from E line, Section 16 cownship 46N, Range 33W asW-78 3.475 from 5 line/2.767 from E line, Section 16 cownship 46N, Range 33W #RW-78 3,475 from S line/2,767 from E line, Section 16, ownship 46N, Range 33W #RW-79 3,466 from 5 line/2,761 from E line, Section 16, ownship 46N, Range 33W #RW-80 3,113 from S line/3,132 from E line, Section 16, ownship 46N, Range 33W #RW-83 3,106 from 5 line/3,176 from E line, Section 16, ownship 46N, Range 33W #RW-82 3,116 from 5 line/2,776 from E line, Section 16, ownship 46N, Range 33W #RW-82 3,107 from 5 line/2,107 from E line, Section 16, ownship 46N, Range 33W #RW-82 3,2612 from 5 line/2,107 from E line, Section 9, Iwaship 46N, Range 33W #RDI 3 2,614 from 5 line/1,695 from E line, Section 9, Iwaship 46N, Range 33W #RDI 3 2,610 from 5 line/1,695 from E line, Section 5, ownship 46N, Range 33W #RDI 3 2,610 from 5 line/1,695 from E line, Section 50 which page 33W #RDI 3 2,610 from 5 line/1,695 from E line, Section 50 which page 33W #RDI 4 2,627 from 5 line/1,297 from E line, Section 7, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line, Section 9, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line, Section 9, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line, Section 9, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line, Section 9, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line, Section 9, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line, Section 9, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line, Section 9, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line, Section 9, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line, Section 9, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line, Section 9, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line, Section 9, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line, Section 9, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line, Section 9, ownship 46N, Range 33W #RDI 4 2,627 from 5 line/1,275 from E line/1,275 from 5 line/1,275 from 5 line/1,275 from 5 line/1,275 fr #ADI 4.2 2,627 from 5 line/1,275 from E line, Section 5 Township 46N, Range 33W #ADI 9.2,183 from 5 line/2,119 from E line, Section 9 Ownship 46N, Range 33W RADI-9 2,183 from S line/2,119 from E line, Section 9, ownship 46N, Range 33W RADI-9 2,2179 from 5 line/1,695 from E line, Section 5 ownship 46N, Range 33W RADI-10 2,198 from 5 line/1,695 from E line, Section 5 ownship 46N, Range 33W RADI-10 2,2197 from 5 line/1,690 from E line, Section 7 ownship 46N, Range 33W RADI-11 2,210* from 5 line/1,287 from E line, Section 7 ownship 46N, Range 33W RADI-16 1,719 from 5 line/2,106 from E line, Section 7 ownship 46N, Range 33W RADI-16 1,719 from 5 line/2,105 from E line, Section 7 ownship 46N, Range 33W RADI-17 1,756 from 5 line/1,700 from E line, Section 7 ownship 46N, Range 33W RADI-17 2,757 from 5 line/1,700 from E line, Section 9 fownship 46N, Range 33W RADI-17 3,749 from 5 line/1,700 from E line, Section 9 fownship 46N, Range 33W RADI-17 3,724 from 5 line/1,707 from E line, Section 9 fownship 46N, Range 33W RADI-17 3,724 from 5 line/2,071 from E line, Section 9 fownship 46N, Range 33W RADI-17 3,724 from 5 line/2,071 from E line, Section 9 fownship 46N, Range 33W RADI-17 3,724 from 5 line/2,067 from E line, Section 9 fownship 46N, Range 33W RADI-17 3,724 from 5 line/2,067 from E line, Section 9 fownship 46N, Range 33W RADI-17 3,724 from 5 line/2,067 from E line, Section 9 fownship 46N, Range 33W RADI-17 3,724 from 5 line/2,067 from E line, Section 9 fownship 46N, Range 33W

Written comments or requests for additional information regarding such wells should be directed within fifteen (15) days of this notice to the address below.

32/10/6/F

Missouri Oll & Gas Council P.O. Box 250 Rolls, MO 65401

Subscribed and swom to before me on this 39

Jamis Anslinger, Classified Ad Manage

June 2012

day of

JULIE M. HICKS Notary Public, Notary Seal State of Missouri Coss County Commission # 09727108 My Commission Expires June 12, 2013

MISSOURI Mechanical Integrity Test



EIVED

FEB 22 2013

Test Date: 2/1/2013				Mo Oil	& Gas Counc
Address: 9393 W.	110th St. Park, Ka mer			opment, LLC	a das courie
Lease: Belton U	0.754	Well No.: _			
County:Cass		Permit No.: _	20,990		
	TEST	INFORMAT	ION		
Pressure X	Radioactive	Tracer Survey		Temperature Surve	у
	Run #1	Run #2	Run #3	Run #4	
Start Time:	8:40		1		
End Time:	9:10		3 1		
Length of Test:	30 min				
Initial Pressure (PSI):	560 #				
Ending Pressure (PSI):	560 #				
Pressure Change:	0 #				
Fluid Used For Test (water	, nitrogen, CO	2, etc.):	Air		
Perforations: Well I	Not Perfec	Yet			
	X .433 =				<u> </u>
The bottom of the tested zon signing the form below, ntegrity on the test date sh	it is certified th	ith Rubber I hat the above inc	Plug_ at a d licated well wa	epth of 696 full stested for mechan	eet. nical
Signature	Ker	11	Cor	ntractor	_
Operator, Contac	t Person or Appr	oved Agent		Title	
OR INTERNAL USE ONLY					
Results were: Satisfactory_	Not Satisfact	ory	Computer Upda	ate:	
State Agent: SQUER					
	!! FI	LE WITH PERM	IIT!!		